

Gulf Coast Hurricane

Preparedness, Response,
Recovery & Rebuilding
CONFERENCE

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October 2
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PROGRAM & REGISTRATION

Renaissance Riverview Plaza Hotel
Mobile, Alabama

November 11–14, 2008

www.pianc.us



*Earn up to 22 Professional
Development Hours (PDHs)!*



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Organizing Committee:

Robert Engler, Ph.D., *Moffatt Nichol (Conference Chair)*
 John Bowie, *EPA Gulf of Mexico Program*
 Wynn Fuller, *U.S. Army Corps of Engineers*
 Jonathan Hird, *Moffatt Nichol*
 Bruce Lambert, *Institute for Trade and Transportation Studies*
 Susan Rees, Ph.D., *U.S. Army Corps of Engineers*
 Edmond Russo, *U.S. Army Corps of Engineers*
 Dave Sanford, *American Association of Port Authorities*
 Jeff Waters, *U.S. Army Corps of Engineers*

PIANC USA Staff:

Kelly J. Barnes, *U.S. Army Corps of Engineers*
 Anne Cann, *U.S. Army Corps of Engineers*

ON BEHALF of PIANC USA, the US Army Corps of Engineers, and all of our generous sponsors and cooperating organizations, it is my pleasure to extend this invitation to join us in Mobile, Alabama, for the **Gulf Coast Hurricane Preparedness, Response, Recovery & Rebuilding Conference 2008**. This



upcoming conference has been organized to bring together the nation's and the world's top professionals in the field of hurricane response, ecosystem restoration and infrastructure protection, including more than 200 private sector and governmental participants.

The four-day conference will include technical sessions, field tour opportunities, industry exhibits, technical short courses and networking events. As part of the tours, you will have the opportunity to see up close the latest innovations being undertaken at the Port of Mobile, as well as ongoing recovery of the Mississippi Gulf Coast from Hurricane Katrina. But the strength of the conference lies with the technical program, with more than sixty-five presentations addressing state-of-the-art technical aspects of subjects ranging from Ecosystem Resiliency—Coastal Recovery; Navigation—Ports and Industry; Community Resiliency—Watershed Wide Flood Hazard Master Planning; and Emergency Preparedness and Response. Reference pages 10 through 12 for a complete listing of all the interesting presentations that are scheduled to be offered.

The venue, Mobile, Alabama, is a beautiful, historic port city by Mobile Bay. Mobile offers a Southern charm that is welcoming and enjoyable for visitors from around the world.

This Gulf Coast Hurricane Conference promises to be the best ever; having a full array of nationally and internationally recognized speakers. Don't miss this opportunity to network with your industry peers and enhance your professional knowledge. **Register today!**

We look forward to seeing you in Mobile in November,

John Paul Woodley, Jr.

HON. John Paul Woodley, Jr.
 Chairman, PIANC USA

PIANC USA

PIANC USA was organized in 1902 with the U.S. Army Corps of Engineers serving as the Secretariat located at the Institute for Water Resources in Alexandria, VA. Its goal is to advance the sustainable development of shallow and deep-draft navigation issues including dredging and dredged material disposal, navigation and port infrastructure, recreational navigation and related environmental matters. PIANC USA is chaired by the Assistant Secretary of the Army (Civil Works); the President is the Deputy Commander, U.S. Army Corps of Engineers. Membership information can be found at **www.pianc.us** or during the conference at the PIANC USA exhibit booth.



Conference Objectives:

- Learn from recent hurricane experiences and challenges;
- Develop proactive navigation preparedness, response and recovery plans on regional and watershed scales;
- Foster interagency learning, coordination and cooperation leading to community and ecosystem resiliency;
- Provide technical experience and directions for engineering and environmental challenges.

Who Should Attend?

This is a **‘must attend’** conference for professionals interested in sharing knowledge and experience in hurricane response, ecosystem restoration and infrastructure protection.

Conference Themes:

- Ecosystem Resiliency—Coastal Recovery
- Navigation—Ports and Industry
- Community Resiliency—Watershed Wide Flood Hazard Master Planning
- Emergency Preparedness and Response

Conference Topics:

- Long Term Economic and Environmental Recovery
- Emergency Preparedness
- Watershed Wide Flood Hazard Master Planning
- Self Sustaining Ports
- Navigation
- Regional Sediment Management
- Ecosystem Resiliency
- Community Resiliency
- Beneficial Uses of Dredged Material
- Flood and Storm Damage Reduction
- Engineering and Environmental Challenges
- Technological Advances

Schedule At-A-Glance

TUESDAY, NOVEMBER 11

7:00 AM–6:30 PM..... Registration
8:00 AM–12:00 PM..... Pre-Conference Technical Workshop
1:00 PM–5:00 PM..... Pre-Conference Technical Workshops
5:30 PM–6:00 PM..... Young Professionals Happy Hour
6:00 PM–8:00 PM..... Opening Reception & Official Start of Conference

WEDNESDAY, NOVEMBER 12

7:00 AM–5:00 PM..... Registration
7:00 AM–8:00 AM..... Continental Breakfast
8:00 AM–5:00 PM..... Exhibits
8:00 AM–8:30 AM..... Kick-Off Address
8:30 AM–10:00 AM..... Technical Sessions
10:00 AM–10:30 AM..... Break
10:30 AM–12:00 PM..... Technical Sessions
12:00 PM–1:30 PM..... Luncheon
1:30 PM–3:00 PM..... Technical Sessions
3:00 PM–3:30 PM..... Break
3:30 PM–5:00 PM..... Technical Sessions

THURSDAY, NOVEMBER 13

7:00 AM–5:00 PM..... Registration
7:30 AM–8:30 AM..... Continental Breakfast
8:00 AM–5:00 PM..... Exhibits
8:30 AM–10:00 AM..... Technical Sessions
10:00 AM–10:30 AM..... Break
10:30 AM–12:00 PM..... Technical Sessions
12:00 PM–1:30 PM..... Luncheon
1:30 PM–3:00 PM..... Technical Sessions
3:00 PM–3:30 PM..... Break
3:30 PM–5:00 PM..... Technical Sessions
6:30 PM–10:00 PM..... Gala Dinner the USS Alabama

FRIDAY, NOVEMBER 14

9:00 AM–4:00 PM..... Technical Tours



Welcome to Mobile, Alabama...

...“Beautiful, Historic, Exciting”!

The Gateway to the Gulf Coast, Mobile, Alabama is a beautiful, historic port city by Mobile Bay. From historic homes under a canopy of majestic oaks to lush, tropical gardens, Mobile offers a Southern charm that is unique and enjoyable for visitors from around the world. Founded by the French over three centuries ago, Mobile was once the capital of the Colony of Louisiana and later governed as a colony by both Britain and Spain. Mobile’s “gumbo culture,” makes it a vibrant port city that is unique in America.



Find out all that Mobile Bay has to offer when you attend the conference. With its unique attractions, fresh delicious seafood, Delta excursions, fascinating museums, twenty-one world-class golf courses, white sandy beaches, and beautiful historic homes, the possibilities are endless!



Visit the Mobile Bay Convention & Visitors Bureau’s website for more information at www.mobile.org.



Photos courtesy of Mobile Bay Convention and Visitors Bureau.

Technical Tours

Coastal Restoration Tour

Friday, November 14

Cost per ticket \$35

9:00pm–3:00pm



The Coastal Restoration tour will give the participants a first hand look at the impact, response, and ongoing recovery of the Mississippi Gulf coast from Hurricane Katrina. The tour will follow US Highway 90 (beach road) through Biloxi, Gulfport, Waveland, and Pass Christian in Harrison County and Bay St. Louis in Hancock County (landfall). Stops will be made at the recently renourished Harrison County Beaches, the Port of Gulfport, and downtown Bay St. Louis. The tour will be narrated by members of the Mississippi Coastal Improvements Program team. This team is developing a



comprehensive plan with the goal of building a resilient Mississippi.

Tickets for this event are available to conference registrants at a cost of \$35 per ticket. Transportation and lunch will be provided. Comfortable clothing and walking shoes are recommended.

Port and Harbor Tour

Friday, November 14

Cost per ticket \$35

9:00pm–3:00pm

Tour participants will have a chance to get out on the water to see Mobile Bay on a boat tour provided by the US Army Corps of Engineers, Mobile District. The tour will include up close looks at the latest and on-going developments in the Mobile Bay area. The tour will also include a visit to the Alabama State Port Authority's general cargo, intermodal and bulk terminals. Since 2000, the Port Authority has invested over \$500



Million in port facilities to meet global and domestic trade needs. The Port of Mobile is ranked 10th largest seaport in total trade handling nearly 60 million tons annually and providing over 10 billion in economic impact to the State of Alabama.



Tickets for this event are available to conference registrants at a cost of \$35 per ticket. Transportation and lunch will be provided. Comfortable clothing and walking shoes are recommended.

Special Events

Opening Reception

Renaissance Riverview Plaza Hotel

Tuesday, November 11

Included in full registration (cost per additional ticket \$50)

6:00pm–8:00pm

The opening reception is a terrific time to meet and mingle with colleagues while getting the conference off to a great start. The reception will take place at the conference hotel in the Jubilee Suite, with its terrific views of Mobile Bay's sparkling waters.

One ticket to this event is included with each full registration; additional tickets are available in advance or onsite at the Conference Registration Desk.

Young Professionals Happy Hour (Immediately prior to the Opening Reception)

Renaissance Riverview Plaza Hotel

Tuesday, November 11

Included in full registration

5:30pm–6:00pm

Young professionals —under 40 years of age—attending the conference are encouraged to “meet and mingle”! This happy hour will provide a relaxed, social forum for young professionals to network with their peers and members of the PIANC USA Board of Commissioners.

Wednesday Luncheon

Renaissance Riverview Plaza Hotel

November 12

Included in full registration (cost per additional ticket \$35)

12:00pm–1:30pm

Join us for this notable lunch which includes a presentation



from **Garret Graves, Director of Louisiana Governor's Office of Coastal Activities**. Louisiana state law says the Governor's coastal affairs director is responsible for developing and implementing coastal and hurricane protection policies for the governor and coordinating state department budgets, programs and projects related to Louisiana's coast. The director also serves as the chairman of the Coastal

Protection and Restoration Authority (CPRA), the body established after the 2005 hurricanes to develop and implement a comprehensive coastal protection plan for Louisiana.

One ticket to this event is included in a Full Registration and a Wednesday Daily Registration. Additional tickets are available for purchase at the Conference Registration Desk. The cost per ticket is \$35.

Thursday Luncheon

Renaissance Riverview Plaza Hotel

November 13

Included in full registration (cost per additional ticket \$35)

12:00pm–1:30pm



Join us for this exceptional lunch which includes a presentation from **Margaret Davidson, Director of NOAA's Coastal Services Center**. The Coastal Services Center, established in 1994, is part of the National Oceanic and Atmospheric Administration's (NOAA) National Ocean Service. The NOAA Coastal Services

Center works with various branches of NOAA and other federal agencies to bring information, services, and technology to the nation's coastal resource managers. The Center is a partner in over 100 ongoing projects geared to resolve site specific coastal issues.

One ticket to this event is included in a Full Registration and a Wednesday Daily Registration. Additional tickets are available for purchase at the Conference Registration Desk. The cost per ticket is \$35.

Gala Dinner at the USS Alabama Battleship

Thursday, November 13

Included in full registration (cost per additional ticket \$65)

6:30pm–10:00pm

Join us on Thursday evening for the conference gala event where “History Meets Heroism,” at the USS Alabama Battleship, one of America's most decorated battleships. You'll enjoy cocktails and appetizers while walking the decks of a mighty battleship. You can also go below in a World War II submarine, view cockpits of combat aircraft, a



Vietnam River Patrol Boat, and a plane like the one flown by the Tuskegee Airmen. Prepare your imagination for take-off as you walk the flight line of the historic aircraft inside the huge aircraft pavilion where an exquisite dinner highlighting a variety of delicious local dishes and fresh seafood will be served. Photographs showing damage done to the aircraft in the pavilion during Hurricane Katrina are also on display.

A ticket to the Gala Dinner is included in each Full Registration. Additional tickets are available in advance or onsite at the Conference Registration Desk at a cost of \$65 per ticket. Transportation and dinner will be provided.

Guest Program

Have your guests take advantage of these special activities while you attend the conference! Guests are also welcome to join the Opening Reception on Tuesday, Gala Dinner at the USS Alabama on Thursday, and technical tours on Friday (separate tickets are required—please see registration page for prices).

Bellingrath Gardens & Home

Wednesday, November 12

Cost per ticket \$40 (includes lunch at the Magnolia Café)
10:00am - 1:30pm

An abundance and array of colors, fragrances and scenic views await you at Bellingrath Gardens and Home! This 65 acre Garden Estate is absolutely breath-taking in November

with its "Cascading Mum Display," the nation's largest outdoor display of cascading chrysanthemums. Bedded, potted and cascading mums encompass the Gardens in the fall colors of red, orange, bronze, yellow, white, pink and more. You will also tour the Bellingrath Museum Home, complete with its original furnishings and Mrs. Bellingrath's extensive collection of decorative arts. Built in 1935, the home was dubbed "English Renaissance" and is filled with priceless china, porcelain, silver and antiques.

Tickets for this event are available at a cost of \$40 per ticket. Transportation and lunch will be provided. Comfortable clothing and walking shoes are recommended.



Tanger Outlets, Foley, AL

Thursday, November 13

Cost per ticket \$20
9:30am - 3:30pm

Shop over 120 brand name outlets at the area's largest outlet mall - bargain hunting at its best! Stores include Anne Taylor, Brooks Brothers, J. Crew, Bombay Outlet, Gap, Old Navy, Banana Republic, Liz Claiborne, Tommy Hilfiger and MORE!

Tickets for this event are available at a cost of \$20 per ticket. Transportation will be provided (1 hour each way). Lunch is on your own at the outlet mall. Comfortable clothing and walking shoes are recommended.

Pre-Conference Workshops

WORKSHOP #1:

Building a Geospatial Infrastructure through Partnerships between NOAA and Gulf Coast Communities—NOAA's Height Modernization Program

Tuesday, November 11

8:00am–12:00pm

Cost of course: \$150 (Student Registration \$50)

4 PDHs

Course Coordinator: Renee L. Shields, National Ocean Service, National Geodetic Survey, National Oceanic and Atmospheric Administration (NOAA)

Since 2001, the National Oceanic and Atmospheric Administration (NOAA) has been working with Gulf Coast states to build a geospatial infrastructure to support numerous activities that rely on accurate heights. From construction to research, navigation to recreation, restoration to development, accurate heights play a critical role. Accurate storm surge and inundation models are required for coastal managers and decision makers to develop evacuation, emergency response, and recovery plans. Surveys must be performed, and reliable and consistent elevation data must be available, before the rebuilding and restoration process can begin. In an environment constantly impacted by regional subsidence, coastal storms, and erosion, it is a challenge to ensure infrastructure data is accurate and up-to-date.

The Height Modernization program is a National plan established by NOAA's National Geodetic Survey (NGS) to provide a modernized process for obtaining accurate heights. Partnering with NGS, universities and local government entities and other Federal agencies in the Gulf Coast region work to update the local geodetic infrastructure, develop models and tools for obtaining accurate heights more easily, and educate and build outside capacity for users of geospatial data.

In this session, NGS and local partners will provide an overview of activities throughout the Gulf Coast region and explain how these programs serve a critical need, both before and after a hurricane.

You will earn 4 Professional Development Hours (PDHs) for this course.



WORKSHOP #2*:

Regional Sediment Management

Tuesday, November 11

1:00pm–5:00pm

Cost of course: \$150 (Student Registration \$50)

4 PDHs

Course Coordinator: Dr. Jeffrey Waters, Program Director for the Regional Sediment Management Program, Coastal & Hydraulics Lab/ERDC, US Army Corps of Engineers.

Regional Sediment Management (RSM) is a systems-based approach for collaboratively addressing sediment related issues within a regional context. Historically, dredged sediment was placed in the most economical locations, which were often on the banks of rivers, or alongside the channel in rivers, bays and estuaries resulting in submerged features and island formations. More recently, environmental concerns over the effects of open water or unconfined placement resulted in sediment being placed in confined areas either upland or in the water. Along coastal inlets, sediment was disposed of in deeper offshore waters. These practices, new and old, do not necessarily consider the regional sediment transport processes and dynamics. Managing sediment as a resource to benefit a region potentially lowers cost, allows use of natural processes to solve engineering problems, and improves the quality of the environment. Under the RSM concept, sediment is considered a natural resource that provides environmental and economic benefits when it is managed effectively on a regional basis.

This workshop will provide detailed background information on several key topics that are critical to successful implementation of RSM strategies. Specific topics will incorporate lessons learned from RSM implementation projects in the USACE RSM Program and include:

- Processes and Controls on Sediment Formation, Transport, and Deposition
- Engaging Stakeholders in Collaborative Planning
- Regional Sediment Management Plan Development
- Innovative Beneficial Use of Dredged Sediment
- How Regional Sediment Budgets Inform Sediment Management Planning
- Join us to learn how RSM strategies that employ a systems-based approach can be implemented to effectively manage sediment for multiple objectives and long-term system sustainability

You will earn 4 Professional Development Hours (PDHs) for this course.

WORKSHOP #3*:

Analysis Techniques for Evaluating Coastal Impacts

Tuesday, November 11

1:00pm–5:00pm

Cost of course: \$150 (Student Registration \$50)

4 PDHs

Course Coordinator: Rose Dopsovic, enterprise coastal GIS (eCoastal) program manager for the US Army Corps of Engineers, Mobile District.

The U.S. Army Corps of Engineers' Joint Airborne Lidar Bathymetry Technical Center of Expertise (JALBTCX) began its National Coastal Mapping Program (NCMP) in 2004. Immediately following completion of its 2004 survey mission, hurricane season hit the southeast US with a vengeance. For the next two years, hurricane after hurricane struck the southeast and the NCMP collected data many times following the storms, resulting in some amazing pre- and post-hurricane data. GIS tools and applications were developed to analyze these regional datasets, which consist of topographic and bathymetry lidar and RGB imagery to extract engineering, environmental and economic information.

JALBTCX collects bathymetric and topographic lidar data along with RGB and hyperspectral imagery and provides GIS products from the native point and raster data that includes a seamless topo/bathy DEM, ortho-imagery, a shoreline position vector, building footprints, bottom reflectance, and a bare earth DEM. Based on input from the GIS community, these products target the needs of analysts and engineers so that their time may be spent working with information rather than generating information with which to work.

This technical workshop will focus on the procedures for data manipulation, and introduction to the eCoastal tools, in an ArcGIS environment to extract impact information from National Coastal Mapping Program data to quantify engineering, environmental and economic impacts. Attendees will find a basic knowledge of ArcGIS helpful.

You will earn 4 Professional Development Hours (PDHs) for this course.



***Note:** These two courses are offered at the same time so it is not possible to register for both.

Technical Program

Wednesday, November 12

8:00am–8:30am	Kick-off Address	
8:30am–10:00am	SESSION 1A:	SESSION 1B:
	<p>NAVIGATION (PORTS & INDUSTRY) RSM</p> <p>Gulf Port Sedimentation Solutions William H. McAnally, Mississippi State University; Hunter Johnson, Mississippi State University; Jeremy Sharp, Mississippi State University</p> <p>Addressing Long-Term Sand Needs for Coastal Restoration in the Gulf of Mexico: the Minerals Management Service's Response with Outer Continental Shelf Sand Roger Amato, Minerals Management Service; Geoffrey Wikel, Minerals Management Service</p> <p>Management of Sediment Post-Hurricane – Beneficial Uses of Dredged Material Anthony Palmer, U.S. Army Corps of Engineers; Teresa Parks, U.S. Army Corps of Engineers</p> <p>Mobile District, Operation Division's Navigation Douglas McArthur, U.S. Army Corps of Engineers</p>	<p>COMMUNITY RESILIENCY WATERSHED WIDE FLOOD HAZARD MASTER PLANNING</p> <p>Integrated Ecosystem Restoration and Hurricane Protection: Louisiana's Comprehensive Master Plan for a Sustainable Coast Jonathan Porthouse, Halcrow, Inc.; Adam Hosking, Halcrow, Inc.; Norwyn Johnson, Louisiana Coastal Protection and Restoration Authority IPT/IIT; Michele Deshotels, Louisiana Coastal Protection and Restoration Authority IPT/IIT</p> <p>Creating Condition Index of Coastal Structures Using GIS Rose Dopsovic, U.S. Army Corps of Engineers</p> <p>Flood Emergency Management, an Australian Perspective Hamid Mirfenderesk, Gold Coast City Council</p> <p>Gulf of Mexico Coastal Storms Program Project Tina Sanchez, National Oceanic and Atmospheric Administration; Tracie Sempier, Mississippi-Alabama Sea Grant Consortium</p>
10:00am–10:30am	Break	
10:30am–12:00p	SESSION 2A:	SESSION 2B:
	<p>EMERGENCY PREPAREDNESS AND RESPONSE</p> <p>We Are In It For The Long Haul Bill Hanson, Great Lakes Dredge and Dock Company</p> <p>Lessons Learned: A Look Back at the 2005 Gulf of Mexico Hurricane Season Lance Labiche, Minerals Management Service</p> <p>The Success of the Hurricane Protection Around Chevron's Refinery at Pascagoula, MS, During Katrina Dr. J.W. van der Mee, Van der Meer Consulting; Dr. C. Cooper; Chevron Energy Technology Co.; M.J. Warner; Chevron, Pascagoula Refinery; H. Adams-Morales, Thompson Engineering; G.J. Steendam, Infram</p> <p>Environmental Sensitivity Index (ESI) Maps: Tools for Preparedness Planning and Response Christine Boring, Research Planning, Inc.</p>	<p>ECOSYSTEM RESILIENCY: COASTAL RECOVERY</p> <p>Borrow Area Management for Barrier Island Restoration in Louisiana Syed Khalil, Louisiana Department of Natural Resources</p> <p>Habitat and Population Tracking of Threatened and Endangered Species Klay Williams, U.S. Army Corps of Engineers</p> <p>Mississippi's Coastal Barrier Islands: First Line-of-Defense in Future Storm Damage Reduction Strategies Bruce McCraney, National Park Service; Jeremy LaDart, U.S. Army Corps of Engineers</p> <p>Accurate Tides and Heights Critical in Promoting Long-Term Ecosystem Resilience on the Gulf Coast Allison Allen, National Oceanic and Atmospheric Administration; Kristen Tronvig, National Oceanic and Atmospheric Administration; Galen Scott, National Oceanic and Atmospheric Administration</p>
12:00pm–1:30pm	Lunch	
	Garret Graves, Director of Louisiana Governor's Office of Coastal Activities	
1:30pm–3:00pm	SESSION 3A:	SESSION 3B:
	<p>NAVIGATION (PORTS & INDUSTRY) RSM</p> <p>Importance of Pre-Hurricane Surveys of Docks and Facilities along Major Port Waterways and Preparedness for Post-Hurricane Surveying Mandy Loeffler, Moffatt & Nichol; Lieutenant Sean Hughes, U.S. Coast Guard; Captain Joe Hill, Valero Marketing and Supply Company</p> <p>NOAA Real-Time Observing Systems Supporting Navigation and Recovery Efforts in the Gulf Kristen Tronvig, National Oceanic and Atmospheric Administration; Darren Wright, National Oceanic and Atmospheric Administration</p> <p>Using CAD & GIS to Develop the USACE's National Channel Framework Gregory Dreaper, U.S. Army Corps of Engineers</p>	<p>COMMUNITY RESILIENCY</p> <p>Nonstructural Solutions for Developing Resilient Coastal Communities Todd Boatman, U.S. Army Corps of Engineers</p> <p>Natural Climatic Hazards and Regional Economic Development on the Gulf Coast Guyslain Ngeleza, Mississippi State University; Daniel Petrolia, Mississippi State University; Keith Coble, Mississippi State University; Barry Barnett, Mississippi State University</p> <p>Preparing for Coastal Hazards Using a Community Self-Assessment Tool Rod Emmer, Louisiana State University; Tracie Sempier, Mississippi-Alabama Sea Grant Consortium; Stephen Sempier, Mississippi-Alabama Sea Grant Consortium; Melissa Schneider, Mississippi-Alabama Sea Grant Consortium; LaDon Swann, Mississippi-Alabama Sea Grant Consortium; Tina Sanchez, National Oceanic and Atmospheric Administration</p>

(continued on next page)

Technical Program (continued)

The USACE National Coastal Mapping Program: 2004-2005 Hurricane Related Surveys

Charles Wiggins, U.S. Army Corps of Engineers; Jennifer Wozencraft, U.S. Army Corps of Engineers; Chris Macon, U.S. Army Corps of Engineers

The Impact of Climate Change on Hurricane Flooding Inundation and Economic Damages

Ashley Frey, Texas A&M University; Francisco Olivers, Texas A&M University; Jennifer Irish, Texas A&M University; Mir Emad Mousavi, Texas A&M University; Youn Kyung Song, Texas A&M University; Billy Edge, Texas A&M University

3:00pm–3:30pm	Break	
3:30pm–5:00pm	SESSION 4A:	SESSION 4B:
	EMERGENCY PREPAREDNESS	ECOSYSTEM RESILIENCY
	A Tool-Kit to Assist Hurricane Evacuation Todd Davison, National Oceanic and Atmospheric Administration	Rehabilitating Louisiana's Oyster Habitat Through the Private Oyster Lease Rehabilitation (POLR) Program Vince Cefalu, Louisiana Department of Wildlife and Fisheries; Ty Lindsey, Louisiana Department of Wildlife and Fisheries; Patrick Banks, Louisiana Department of Wildlife and Fisheries
	Sensitivity Studies of Factors Affecting Storm Surge, and a Proposed New Saffir Simpson Scale Pat Fitzpatrick, Mississippi State University; Chris Hill, Mississippi State University; Yongzuo Li, Mississippi State University; Nam Tran, Mississippi State University; Yee Lau, Mississippi State University; Haldun Karan, Mississippi State University	Mississippi Coastal Improvements Program (MsCIP) Jenny Jacobson, U.S. Army Corps of Engineers
	Trustee Coordination During Response Brad Benggio, National Oceanic and Atmospheric Administration; Gregory Hogue, Department of Interior	Recovery of Panama City Beach Erosion Control and Storm Damage Reduction Project in the Aftermath of Three Major Hurricanes Jennifer Wozencraft, U.S. Army Corps of Engineers
	Protection of Natural and Cultural Resources and Historic Properties During a Disaster Gregory Hogue, Department of Interior; Andrew Raddant, Department of Interior; Stephen Spencer, Department of Interior	Multi-Criteria Decision Analysis in Estuary Restoration Planning Anna Toline, ENTRIX, Inc.; Tim Havranek, ENTRIX, Inc.; Leo Lentsch, ENTRIX, Inc.; Doug McNair, ENTRIX, Inc.

Thursday, November 13

8:30am–10:00am	SESSION 5A:	SESSION 5B:
	COMMUNITY RESILIENCY WATERSHED WIDE FLOOD HAZARD MASTER PLANNING	EMERGENCY PREPAREDNESS AND RESPONSE
	Risk Based Coastal Asset Management Adam Hosking, Halcrow, Inc.; Richard Harpin, Halcrow, Inc.; Ben Hamer, Halcrow Group; Louise Trim, Halcrow Group	But I'm Not a Meteorologist—Using NWS Weather Information in Medical Facility Preparedness Margaret Fowke, National Weather Service; David Wallace, University of South Alabama; Maryanne Kridner, UTHSCSA School of Nursing
	Synopsis of the Coastal Damage Reduction Effort for the Mississippi Coastal Improvements Program (MsCIP) Comprehensive Plan Dennis Mekkers, U.S. Army Corps of Engineers; Jeremy LaDart, U.S. Army Corps of Engineers	Storm Recovery Planning for Cape Lookout National Seashore: Using Multi-Dimensional Valuation to Assess Resource Priorities Eric Bardenhagen, Texas A&M University; Dr. George Rogers, Texas A&M University
	Internet Map Serving the Hurricane Katrina Peak Storm Tide in Alabama, Mississippi, and Louisiana D.Phil Turnipseed, U.S. Geological Survey; K. Van Wilson, U.S. Geological Survey; James E. Hanthorn, U.S. Geological Survey; Dean Tyler, U.S. Geological Survey; Jason Stoker, U.S. Geological Survey; Robert Mason, Jr., U.S. Geological Survey	Information Management for BIG Emergency Response—"Katrina-Style" Richard Knudsen, Florida Fish and Wildlife Conservation Commission; Brad Benggio, National Oceanic and Atmospheric Administration; Chris Anderson, Florida Fish and Wildlife Conservation Commission
	Hindcast of Wave Overtopping and Levee Erosion at Grass-Covered Levees During Katrina Mathijs van Ledden, Haskoning, Inc.; Robert Bass, U.S. Army Corps of Engineers; Maarten Kluijver, Haskoning, Inc.; Nancy Powell, U.S. Army Corps of Engineers; Robert Dean, University of Florida	Protecting New Orleans—Fast Track Design-Build to Respond to Natural Disaster John Kochubka, Weston Solutions, Inc.; Mathew Beatty, Weston Solutions, Inc.
10:00am–10:30am	Break	
10:30am–12:00p	SESSION 6A:	SESSION 6B:
	ECOSYSTEM RESILIENCY & COASTAL RECOVERY	EMERGENCY PREPAREDNESS & RESPONSE
	Greenshores vs. Ivan: Response of a Created Saltmarsh to a Major Hurricane David McGehee, Emerald Ocean Engineering LLC	An Offshore Water Level Network for Hurricane Storm Surge Measurements and Predictions Phillippe Tissot, Texas A&M University; Daniel Prouty, Texas A&M University; Don Mulcare, Texas A&M University; James Rizzo, Texas A&M University; Stacey Lyle, Texas A&M University; Gary Jeffress, Texas A&M University
	Impacts of Hurricane Rita on Shoreline Habitats James Gibeau, PhD, Texas A&M University; Tiffany Hepner, The University of Texas at Austin; John Andrews, The University of Texas at Austin	

(continued on next page)

Technical Program

Thursday, November 13 (continued from previous page)

10:30am – 12:00p	SESSION 6A: NAVIGATION (PORTS & INDUSTRY) RSM Economic Assessment of Rapid Land-Building Technologies for Coastal Restoration Daniel Petrolia, Mississippi State University; Rex Caffey, Louisiana State University; Tae-goun "Teddy" Kim, Mississippi State University Modeling Water and Sediment Contamination of Lake Pontchartrain Following Pump-out of Hurricane Katrina Floodwater Mark Dortch, PhD, Moffatt & Nichol	SESSION 6B: COMMUNITY RESILIENCY WATERSHED WIDE FLOOD HAZARD MASTER PLANNING Hurricane Katrina, Hydrologic Engineering Disaster Response Charles Demas, U.S. Geological Survey; Benn Stubbs, U.S. Army Corps of Engineers; Nancy Powell, U.S. Army Corps of Engineers Gulf Coast Inland Waterways Joint Hurricane Response Protocol Nelson Sanchez, U.S. Army Corps of Engineers Evaluating the Risk to Structures Along the Texas Coastal Zone due to the Effect of Storm Surge Youn Kyung (Katy) Song, Texas A&M University; Jennifer Irish, Texas A&M University; Kuang-An Chang, Texas A&M University; ; Billy Edge, Texas A&M University
12:00pm – 1:30pm	Lunch Margaret Davidson, Director of NOAA's Coastal Services Center	
1:30pm – 3:00pm	SESSION 7A: GULF COAST HURRICANE STORM SURGE MODELING Session organized by Coastal and River Modeling and Analysis Subcommittee of COPRI Construction of a Finite Element Mesh for the Texas Coast John Atkinson, Ayres Associates; Hugh Roberts, Arcadis; Joannes Westerink, University of Notre Dame Astronomic Tides, Flows and Hurricane Storm Surge Modeling of the Pascagoula River, Mississippi Naeko Takahashi, University of Central Florida; Qing Wang, University of Central Florida; Dr. Scott Hagen, University of Central Florida Hurricane Storm Surge Forecasting for Coastal Rivers David Welch, National Weather Service; Dave Ramirez, National Weather Service Wave Setup for a Gulf Coast Flood Risk Study Donald Slimm, University of Florida	SESSION 7B: RISK-INFORMED COASTAL PROTECTION AND RESTORATION Coastal Protection and Restoration in Louisiana and Mississippi Edmond Russo, U.S. Army Corps of Engineers; Susan Rees, U.S. Army Corps of Engineers; Tim Axtman, U.S. Army Corps of Engineers The Role of Structural and Non-Structural Measures in Reducing Flood Risks Brian Harper, U.S. Army Corps of Engineers; Carol Hollaway, U.S. Army Corps of Engineers Integrating Coastal Restoration with Flood Risk Management Craig Fischenich, U.S. Army Corps of Engineers Risk-Informed Decision Making for Hurricane Protection and Coastal Planning Todd S. Bridges, U.S. Army Corps of Engineers; Burton Suedel, U.S. Army Corps of Engineers; Martin Schultz, U.S. Army Corps of Engineers; Brian Harper, U.S. Army Corps of Engineers; Cynthia Banks, U.S. Army Corps of Engineers
3:00pm – 3:30pm	Break	
3:30pm – 5:00pm	SESSION 8A: EMERGENCY RESPONSE OF NOAA'S NATIONAL OCEAN SERVICE IN POST-HURRICANE GULF COAST COMMUNITIES Hydrographic Surveying after Hurricanes: Katrina and Rita Howard Danley, National Oceanic and Atmospheric Administration NOAA Real-Time Water Levels and Decision-Support Tools Are Critical to Emergency Management and Preparedness Kristen Tronvig, National Oceanic and Atmospheric Administration Restoring Geodetic Infrastructure for Post-Hurricane Recovery Kendall Fancher, National Oceanic and Atmospheric Administration Leveraging NOAA's National Geodetic Survey, Remote Sensing Division's Aerial Sensors for Emergency Response Efforts Stephen White, National Oceanic and Atmospheric Administration	SESSION 8B: COMMUNITY RESILIENCY WATERSHED WIDE FLOOD HAZARD MASTER PLANNING Wave-Induced Damage to Highway Bridges Scott Douglass, University of South Alabama; Caren Reid, University of South Alabama; Christopher Oliver, University of South Alabama Effects of Coastal Barriers on Waves and Surges of Hurricane Katrina Jim Chen, Louisiana State University; Lixia Wang, Louisiana State University; Haihong Zhao, Louisiana State University Supporting Port Sustainability through Ecosystem and Community-level Habitat Restoration Cheryl Brodnax, National Oceanic and Atmospheric Administration Measuring Katrina Waves in Lake Pontchartrain Harley Winer, PhD, PBS&J

General Information

SPEAKER & MODERATOR REGISTRATION

All speakers and moderators are required to register for the conference in advance and submit a registration fee. Speakers and moderators must check in at the conference registration desk to pick up badges and tickets. Speaker instructions, presentation guidelines and Biographical Data forms will be distributed ahead of time and posted on the website.

ATTIRE

The dress code for the Conference is business casual (i.e. slacks, casual dresses) to business attire (i.e. neckties, business suits) and military uniforms. Meeting room temperatures will vary, so wear layered clothing to ensure your personal comfort. We also recommend comfortable clothing and shoes for the tours.

PROFESSIONAL DEVELOPMENT HOURS (PDHS)

You may earn PDHs, which are nationally recognized units of record, by attending conference technical sessions. Please note

that there are differences from state to state in continuing education requirements for professional licensure. Each state registration board has the final authority to approve course, credits, PDHs, and other methods of earning credits in that state. PIANC USA strongly recommends that individuals regularly check with their state registration boards for specific continuing education requirements.

WEB SITE

For additional information on the Gulf Coast Hurricane Preparedness, Response, Recovery & Rebuilding Conference, please visit www.pianc.us.

MEETING ROOM AVAILABILITY

If your committee, working group or board is interested in holding a meeting during the conference in Mobile, AL, please contact Kelly Barnes at kelly.j.barnes@usace.army.mil or 703-428-9090 for available dates and times of committee meeting rooms.

Hotel Information



Renaissance Riverview Plaza Hotel

64 South Water Street
Mobile, AL 36602
Tel: (251) 438-4000
Fax: (251) 415-0123

www.riverviewmobile.com

The conference hotel is ideally situated in the heart of Mobile's downtown business and entertainment district. The newly renovated hotel rises majestically over the sparkling waters of Mobile Bay. The luxurious rooms and

suites combine comfort with business friendly amenities such as wireless internet, spacious work desk, and ergonomic chair.

MAKE YOUR RESERVATION

Conference room rates for single / double: \$139.00 (plus sales tax). Bayview Parlor Suites are an additional \$169.00. Government room rates are available at the prevailing government per diem, but book your room early to ensure you get one.

To make your reservation within the Gulf Coast Hurricane Conference Room Block dial **800-922-3298** and reference the "Gulf Coast Hurricane Conference" to ensure that you receive the special group rate. The Gulf



Coast Hurricane Conference room rates will be available 3 days prior and post conference dates (November 11–14, 2008), based on availability.

Reduced room rate cut-off date: **October 17, 2008**. Each individual guest must make their own reservations by October 17 in order to receive the room rates that have been established for the conference. After that date, room rates and availability will be at the hotel's discretion.

AIRPORT / TRANSPORTATION INFORMATION

Mobile Airport (MOB)

Hotel is located 14.0 mi South West of MOB. Estimated taxi fare (\$26 one way).

Driving directions to hotel: Start out going southeast on Joseph Drawns Drive toward Airport Blvd/CR-56 West which is approximately 0.3 miles. Turn left on Airport Blvd which is approximately 6.8 miles, then merge onto I-65 South which is approximately 3.0 miles. Merge onto I-10 East via exit 0 on the left which is approximately 6.4 miles; then take the Water Street Exit which is exit 26-B toward downtown Mobile. Turn slight left onto South Water Street, then make a left turn onto Government Street and right on Royal Street. The hotel is on the right side of the street.

Pensacola Airport (PNS)

Phone: 1-850-436-5000. Hotel is located 57.0 miles North West of PNS.

Biloxi Airport (GPT)

Phone: 1-228-863-5819. Hotel is located 72.0 miles East of GPT.

Hotel Parking

On-site parking fee \$3/hour or \$12/day; valet \$16/day.

Registration Information

Conference Program & Registration

Your FULL Conference registration gives you admittance to the following events:

Opening Reception—Tuesday, November 11

Technical Sessions—Wednesday and Thursday, November 12–13

Continental Breakfasts, Morning and Afternoon

Breaks—Wednesday and Thursday, November 12–13

Luncheons—Wednesday and Thursday, November 12–13

Gala Dinner—Thursday, November 13

Exhibits—Wednesday and Thursday, November 12–13

Daily registrations include the events taking place during that day only. The Thursday Daily registration includes the Gala Dinner, Thursday, November 13.

Program and Session Cancellation: PIANC USA reserves the right to cancel programs and/or sessions because of low registration. In the unlikely event of a cancellation, all registrants will be notified and will receive full refunds, if applicable. Programs and Sessions are subject to change and PIANC USA reserves the right to substitute program, session and/or speaker of equal caliber to fulfill educational requirements.

Registration Rates

Registration Category	Early Bird* Registration	Advance or On-Site** Registration
Member (PIANC or cooperating organization)		
Full Registration	\$345	\$395
Speaker or Moderator		
Full Registration	\$345	\$395
Non-Members		
Full Registration	\$395	\$445
Student***		
Full Registration	\$100	\$100
Daily Registration		
Wednesday	\$220	\$220
Thursday	\$290	\$290

Cut-off dates for registration are as follows:

*Early-Bird.....October 2, 2008

**Advance or On-Site.....October 3 – November 13, 2008

***Proof of full time student status required.

★ Early-Bird Registration ★ DISCOUNT & PRIZES!

PIANC USA invites registrants to take advantage of the early-bird registration discount and prizes! The deadline for early-bird registration is October 2, 2008. Everyone signed up for a full registration by the deadline is entered into a contest to win \$50 gas cards! Two winners will be chosen and announced at the conference (must be present to win). Registration forms, including complete payment information, must be RECEIVED by this date to qualify for the early-bird registration discount and prize drawing.

Attention Students- Prizes and Travel Scholarships

PIANC USA invites full time students to take advantage of special student discounts, prizes, and travel scholarships! Attend the conference for a much reduced conference rate of only \$100. Pre-conference workshops are only \$50. All students who register for the conference AND at least one workshop are entered into a contest to win Starbucks gift cards and "just released" PIANC technical reports! Three winners will be chosen and announced at the conference (must be present to win). Students needing travel scholarships may apply for funds through PIANC USA. A limited amount of travel funding is available, so make your request in writing by October 20, 2008, to pianc@usace.army.mil or call 703-428-9090 for more information. Scholarship awards will announced on October 27, 2008.



On-Site Registration

Registration forms received AFTER November 3, 2008 will not be processed. After this date, on-site registration will be necessary. Please be prepared to complete an On-site Registration Form at the Gulf Coast Hurricane Conference Registration Desk located in the Bon Secour Bay Foyer of the Renaissance Riverview Plaza Hotel. A PDF form is available on-line for your convenience if you wish to fill it out to bring it with you.

Confirmation of Registration

A confirmation will be mailed or e-mailed to all advance registrants within a couple of weeks of registering for the conference. Advanced registrants will receive their name badges and any tickets ordered at the on-site Registration Desk located in the Bon Secour Bay Foyer of the Renaissance Riverview Plaza Hotel during registration hours.

Payment Information

Acceptable forms of payment include:

Check—payable to **U.S. Section PIANC** (in U.S. dollars, drawn on a U.S. bank—you must include attendee's name in the memo area of the check)

Credit Card—VISA, MasterCard, and American Express

Purchase Order—P.O. #, company name & address or other billing address (includes Government PO use)

Mail or Fax registrations to:

Gulf Coast Hurricane Conference

c/o Leading Edge Marketing and Planning

650 Ritchie Hwy, Suite 305

Severna Park MD 21146

Fax: 410-544-6395 **OR** you may register on-line at www.pianc.us.

Full payment must accompany all registration forms. Registration forms will not be processed without payment or a copy of a purchase order.

Cancellations

Cancellations must be received in writing by October 27, 2008, to receive a refund of the registration fee. A \$50 processing fee will be deducted from all refunds. Additional event tickets will be fully refunded if cancelled in writing by October 27, 2008. There are no cancellations after October 27, 2008. For cancellations, write to PIANC USA, Attn: Gulf Coast Hurricane Conference, 7701 Telegraph Rd, Casey Bldg., Alexandria, VA 22315, USA, or send a fax to 703-428-8171 (Attn: PIANC USA).

On-Site Registration Hours

Tuesday, November 11 7:00 AM–6:30 PM

Wednesday, November 12 7:00 AM–5:00 PM

Thursday, November 13 7:00 AM–5:00 PM

REGISTRATION TOTAL (pay this amount)

Sponsors and Exhibitors

The Gulf Coast Hurricane Conference Organizing Committee would like to thank all of our sponsoring, exhibiting, and cooperating organizations. Without the generous support of these industry leaders, we would not be able to provide our industry with opportunities such as these. All donations, sponsorships, and cooperating commitments are greatly appreciated.

Silver Level Sponsors

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PIANC USA
Pipe and Piling
Presto Products – Geosystems
US Army Corps of Engineers, Institute for Water Resources
US Army Corps of Engineers, Spatial Data Branch
Weston Solutions, Inc.

Cooperating Organizations

American Association of Port Authorities
Association of Floodplain Managers of Mississippi
Coasts, Oceans, Ports, and Rivers Institute of ASCE
Dredging Contractors of America
EPA Gulf of Mexico Program
Gulf of Mexico Coastal Ocean Observing System Regional Association (GCOOS)
Gulf Intracoastal Canal Association (GICA)
Inland Rivers, Ports, and Terminals
Institute for Trade and Transportation Studies
National Oceanic Atmospheric Administration
Northern Gulf Institute
National Waterways Conference, Inc.
Transportation Research Board / Marine Board
US Army Corps of Engineers, Mobile District

It's Not Too Late to Sponsor or Exhibit at the Gulf Coast Hurricane Conference!

If your company provides goods and services related to hurricane response, ecosystem restoration and infrastructure protection, sponsoring and exhibiting at the Gulf Coast Hurricane Conference is the ideal opportunity to gain exposure and develop new industry contacts and customers.

We are also collecting contributions to the student travel scholarship fund. For more information on sponsoring and exhibiting, go to www.pianc.us or contact Kelly Barnes at 703-428-9090 / Kelly.J.Barnes@usace.army.mil.

Space is limited, so don't delay – sign up today!



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